

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
15 September 2005 (15.09.2005)

PCT

(10) International Publication Number
WO 2005/085776 A1

(51) International Patent Classification⁷: **G01G 19/393**

(21) International Application Number:
PCT/IS2005/000006

(22) International Filing Date: 8 March 2005 (08.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
7174 9 March 2004 (09.03.2004) IS

(71) Applicant (for all designated States except US): **VALKA EHF** [IS/IS]; Hrauntungu 19, IS-200 Kopavogur (IS).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **HELGÍ, Hjálmarsson** [IS/IS]; Digranesheiði 39, IS-200 Kopavogur (IS).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,

CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NI, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

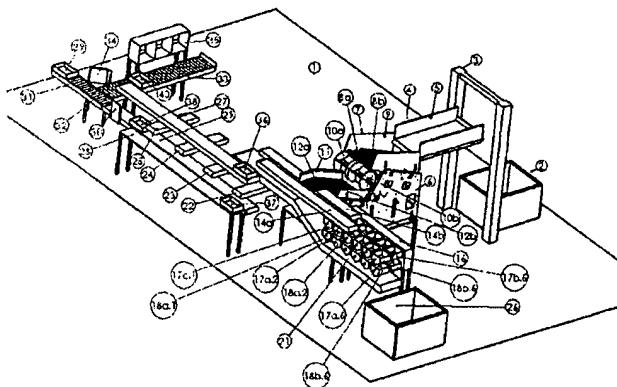
— of inventorship (Rule 4.17(iv)) for US only

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: A METHOD FOR AUTOMATICALLY FEEDING A COMBINATION WEIGHER



WO 2005/085776 A1

(57) Abstract: The invention is a method of automatically feeding and transporting food products from an in-feed device to a combination weigher, which automatically selects from a number of portions of known weight the optimum combination of portions to create a batch of fixed weight with minimum give-away. The method consists mainly of ensuring that the raw material being processed, which typically consists of fresh and unfrozen food products of various kinds that are fragile and have the tendency to stick to the equipment underlay, especially fresh fish, poultry and meat products, fruit and vegetable products and other unfrozen food products of this type, is fed onto at least one or an unlimited number (n) of independent, endless movable conveyors (14a, 14b, ..., 14n) or (53) and (54-58) which are movable as a whole in both directions along their longitudinal plane independently of each other, and transport the product evenly, accurately and securely by means of these conveyors to a combination weigher (16) or (52).

BEST AVAILABLE COPY